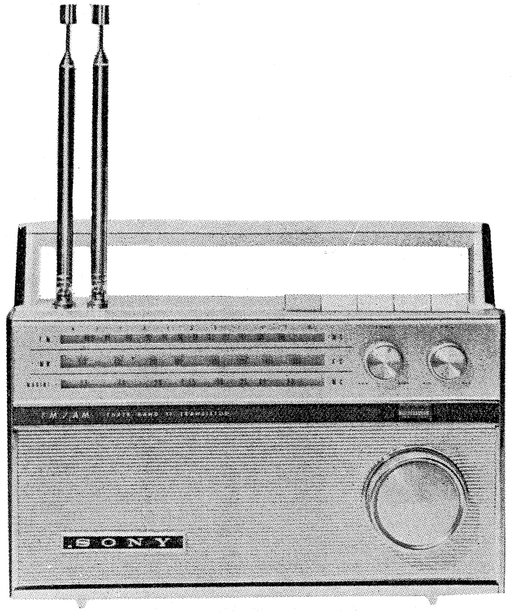


Specifications

Circuit :	11 Transistor, Superheterodyne	
Frequency Coverage :	FM	86.5—108 Mc (3.53—2.78 m)
	MW	530—1,605 Kc (566—187 m)
	SW	1.5—4.5 Mc (200—66.7 m)
Intermediate Frequency :	FM	10.7 Mc
	AM	455 Kc
Antenna System :	FM	Two built-in Telescopic Antennas External Antenna Jacks
	AM	Ferrite Bar Antenna One built-in Telescopic Antenna (left) External Antenna Jack (left)
Maximum Sensitivity : (at 10 mW output)	MW	16 μV/m
	SW	28 μV/m
	FM	1 μV/m
Selectivity :	MW 33 dB at 10 Kc off resonance, at 1,400 Kc	
Output Power :	900 mW (undistorted), 2.68V across 8 Ω load	
Speaker :	4" PM Dynamic, 8 Ω	
Battery :	Four Size "D" Flashlight Batteries (6 Volts)	
Current Drain :	18 mA (AM), 24 mA (FM) at zero signal 240 mA at 700 mW output	
Dimensions :	10-3/4" × 8-1/4" × 3-3/8" (273 × 208 × 86 mm)	
Weight :	6.4 lbs (2.9 Kg)	

Adjustments

a) Frequency Coverage Adjustment

	Lower Limit	Adjust	Upper Limit	Adjust
FM	85.5 Mc	Core and Gap of FM OSC Coil (L_4)	109.5 Mc	FM OSC Trimmer (C_4)
MW	520 Kc	Core of MW OSC Coil (L_6)	1,680 Kc	MW OSC Trimmer (C_{6-1})
SW	1.45 Mc	Core of SW OSC Coil (L_7)	4.7 Mc	SW OSC Trimmer (C_{6-2})

b) Tracking Adjustment

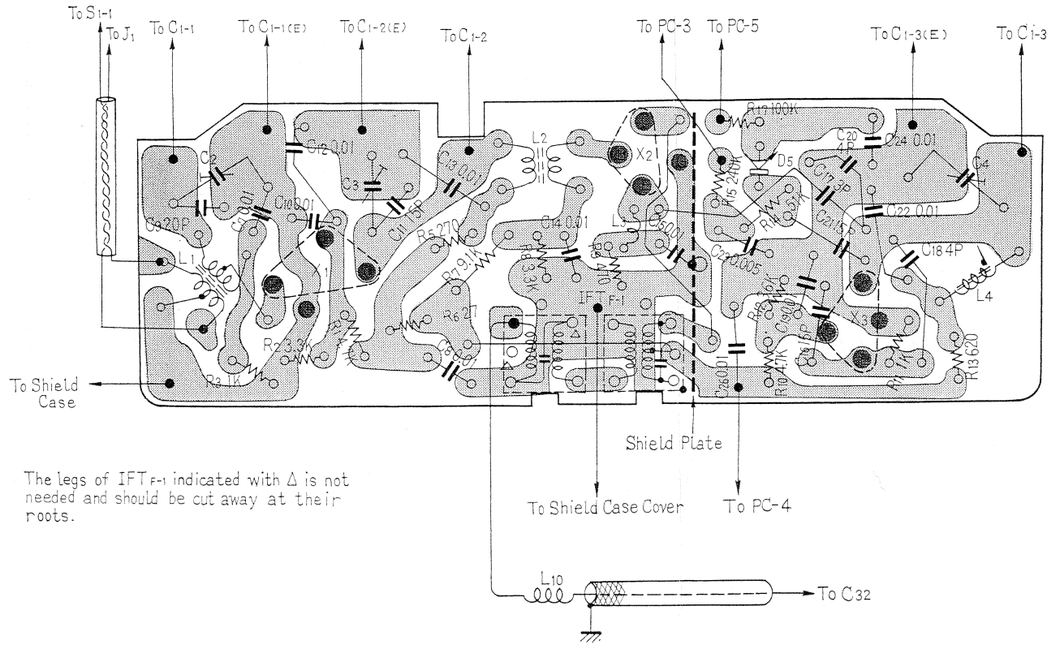
	Lower Checking Point	Adjust	Upper Checking Point	Adjust
FM	85.5 Mc	Core of FM RF Coil (L_3)	109.5 Mc	FM RF Trimmer (C_3)
		Core of FM ANT Coil (L_1)		FM ANT Trimmer (C_2)
MW	620 Kc	Position of MW ANT Coil (L_5-M)	1,400 Kc	MW ANT Trimmer (C_{5-1})
SW	1.45 Mc	Position of SW ANT Coil (L_5-S)	4.7 Mc	SW ANT Trimmer (C_{5-2})

TFM-116A

Mounting Diagram

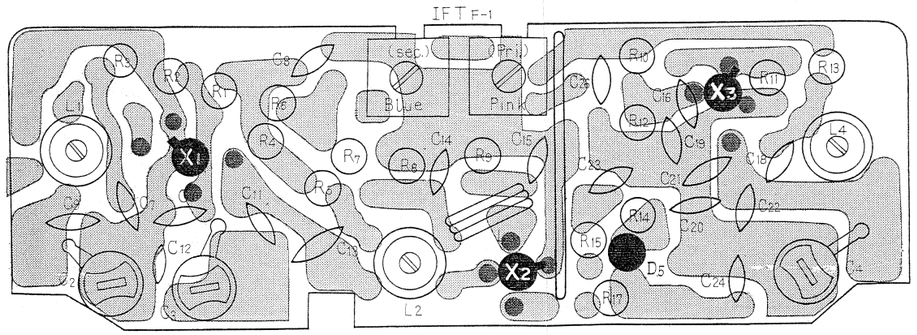
FM Tuner Section

— Printed Side —

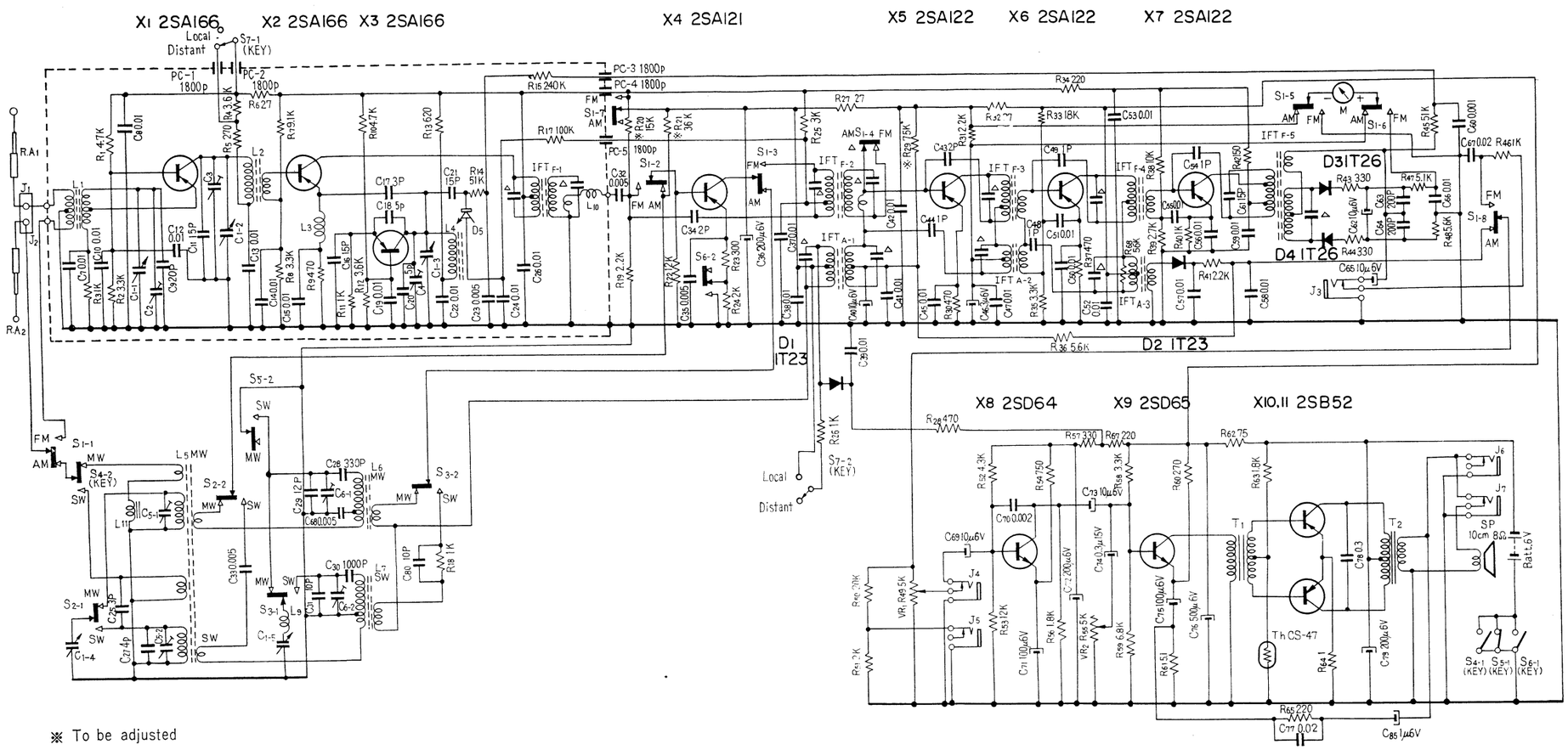


The legs of IFT F-1 indicated with Δ is not needed and should be cut away at their roots.

— Parts Side —



Schematic Diagram

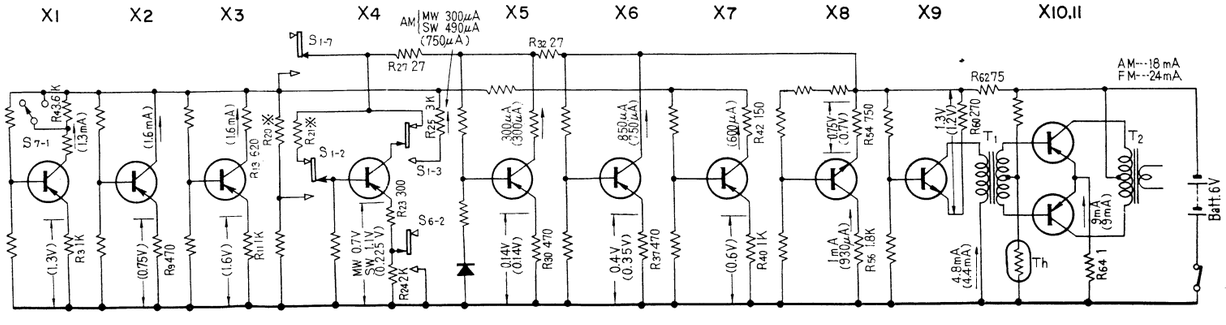


※ To be adjusted

Capacitors marked with △ are built in relative IF Transformers.

$C_{20,27,86,87}$: Used in some sets for adjustment purpose.

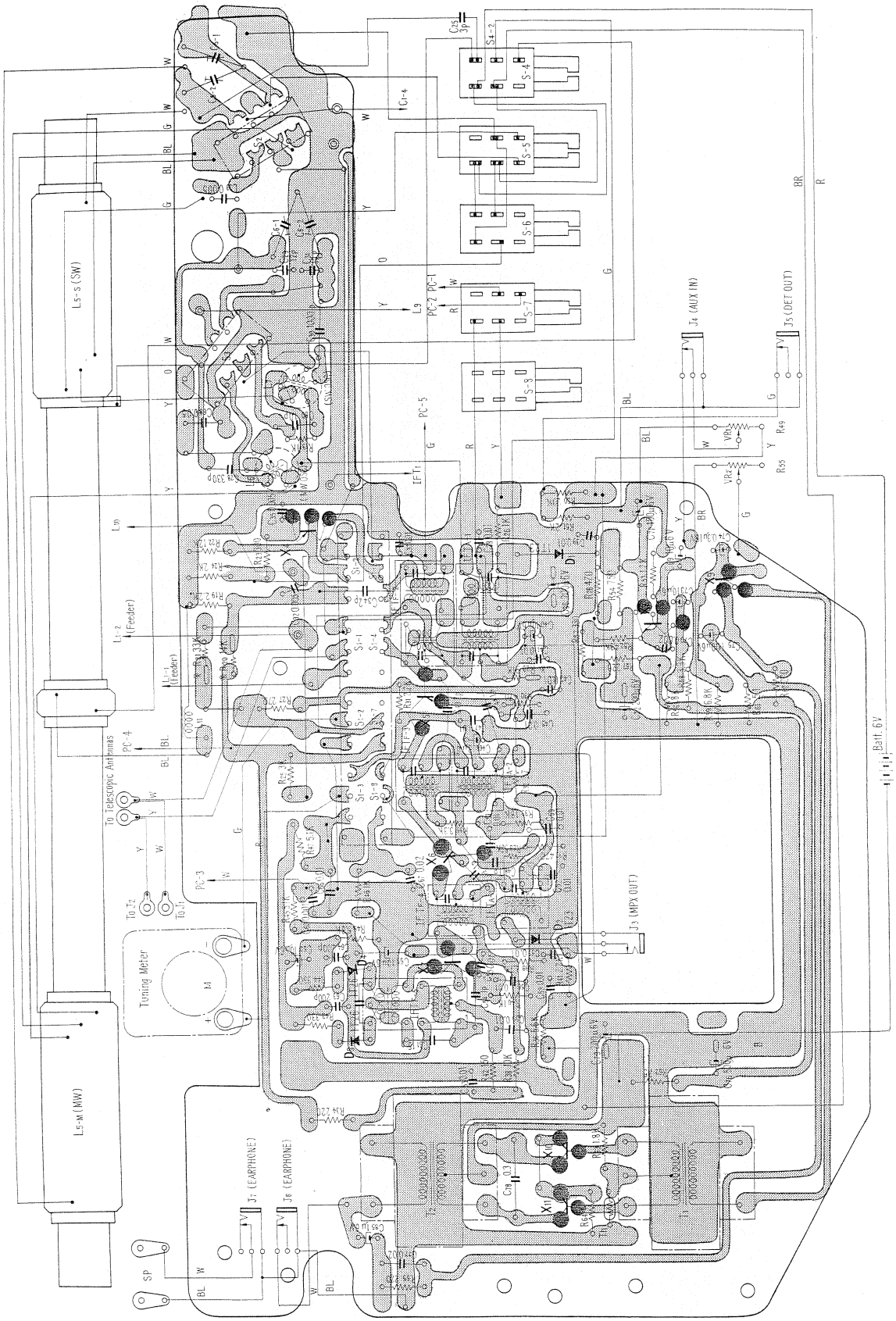
Voltage and Current Distribution Chart at Zero Signal



Values in the parenthesis are for "FM."

Mounting Diagram

IF•AF Section
—Printed Side—



Mounting Diagram

IF • AF Section

—Parts Side—